

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2004/001385

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ G11C11/14 H01L27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷ G11C H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI PAJ EPODOC PATENTPC CNPAT (magnetic MRAM writ+ vertical RAM current)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN1385905A(HYNIX SEMICONDUCTOR INC)18.Dec.2002 (18.12.2002) see the whole document	1-24
A	CN1433022A(SAMSUNG ELECTRONICS CO LTD)30.Jul.2003 (30.07.2003) see the whole document	1-24
A	US2004/0052127A1 (NEC CORP) 18.Mar.2004 (18.03.2004) see the whole document	1-24

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
28.Feb.2005 (28.02.2005)

Date of mailing of the international search report

17 · MAR 2005 07:23:20 (5)

Name and mailing address of the ISA/
6 Xitucheng Rd., Jimen Bridge, Haidian District,
100088 Beijing, China
Facsimile No. (86-10)62019451

Authorized officer

Telephone No. (86-10)62084927

Form PCT/ISA /210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2004/001385

CN1385905A	18.12.2002	US6649953 B2	18.11.2003
		KR399436 B	29.09.2003
		JP2002329846 A	15.11.2002
CN1433022A	30.07.2003	KR2003060327 A	16.07.2003
		US2003128580 A1	10.07.2003
		EP1329895 A2	23.07.2003
US2004/0052127A1	18.03.2004	JP2003218328 A	31.07.2003
		JP2004104027A	02.04.2004
		JP2004119904 A	15.04.2004